

National Institute of Open Schooling
Secondary Course: Mathematics
Lesson 9: Instalment Buying
Worksheet-9

1. A typewriter is available for Rs. 8000 cash or Rs. 4500 cash down payment followed by four monthly instalments of Rs. 500 each. Find the rate of interest per annum charged under the instalment plan.
2. A television is available for Rs. 28000 cash or Rs. 21000 cash down payment followed by five equal monthly instalments of Rs.3000 each. Find the rate to interest per annum charged under the instalment plan.
3. A scooter is available for Rs. 20,000 cash or Rs. 15,000 cash down payment followed by four monthly instalments. If the rate of interest charged under the instalment plan is $33\frac{1}{3}\%$ per annum, find the amount of each instalment.
4. A watch is available for Rs. 1000 cash or Rs. 300 cash down payment followed by five equal monthly instalments. If the rate of interest charged under the instalment plan is 15% per annum, find the amount of each instalment.
5. An article is available for Rs. 500 cash or Rs. 150 cash down payment followed by five equal monthly instalments. If the rate of interest charged under the instalment plan is 12% per annum, find the amount of each instalment.
6. A bicycle is available for Rs. 1500 cash or Rs. 500 cash down payment followed by three monthly instalments of Rs. 250 each. Find the rate to interest per annum charged under the instalment plan.
7. A juicer is available for Rs. 2500 cash or Rs. 1200 cash down payment followed by three equal quarterly instalments. If the rate of interest charged under the instalment plan is 12% per annum compounded quarterly, find the amount of each instalment.
8. A ceiling fan is available for Rs. 950 cash or Rs. 250 cash down payment followed by three equal monthly instalments of Rs. 300 each. Find the rate to interest per annum charged under the instalment plan.
9. A television is available for Rs. 7500 cash down payment followed by two equal monthly instalments of Rs. 5581.50 each. If the rate of interest charged under the instalment plan is 15% per annum compounded monthly, find the cash price of the television.
10. A washing machine is available for Rs. 35000 cash or Rs. 5000 cash down payment followed by four equal monthly instalments. If the rate of interest charged under the instalment plan is 12% per annum, find the amount of each instalment.